

METHOD AND DEVICE FOR THE CONTACTLESS DETECTION OF FLAT OBJECTS

ABSTRACT

The invention relates to a method and a device for the contactless detection of flat objects, particularly in sheet form, such as paper, films, foils, plates, labels, splices, break points, tear-off threads and similar flat materials or packs.

In the case of said methods and devices there is a need, e.g. in the printing industry, for a reliable, precise detection of single, missing or multiple sheets, especially double sheets of the flat objects, together with a label detection.

For this purpose the invention creates a very flexible solution usable over a very wide gram weight or weight per unit area range in that the sensor device, specifically the receiver-following evaluating device is supplied with at least one correction characteristic, by means of which the measuring signal input voltage characteristic in the receiver is simulated as a function of the gram weight or weight per unit area of the flat objects as a target characteristic in such a way that there is obtained a linear or almost linear dependence or a characteristic approximated to the ideal single sheet detection characteristic in the form of a target characteristic.